

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: METALUX

Report Number: P#

Luminaire Tested: **8ILED-LD5-28-N-TWBWG-UNV-L835-CD4-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P#
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P34186)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 8ILED-LD5-28-N-TWBWG-UNV-L835-CD4-U
Description: Metalux 8' ILED WITH NARROW WITH THIN WHITE BAFFLE AND WIREGUARD DISTRIBUTION

Light Source: (1) 3500 CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

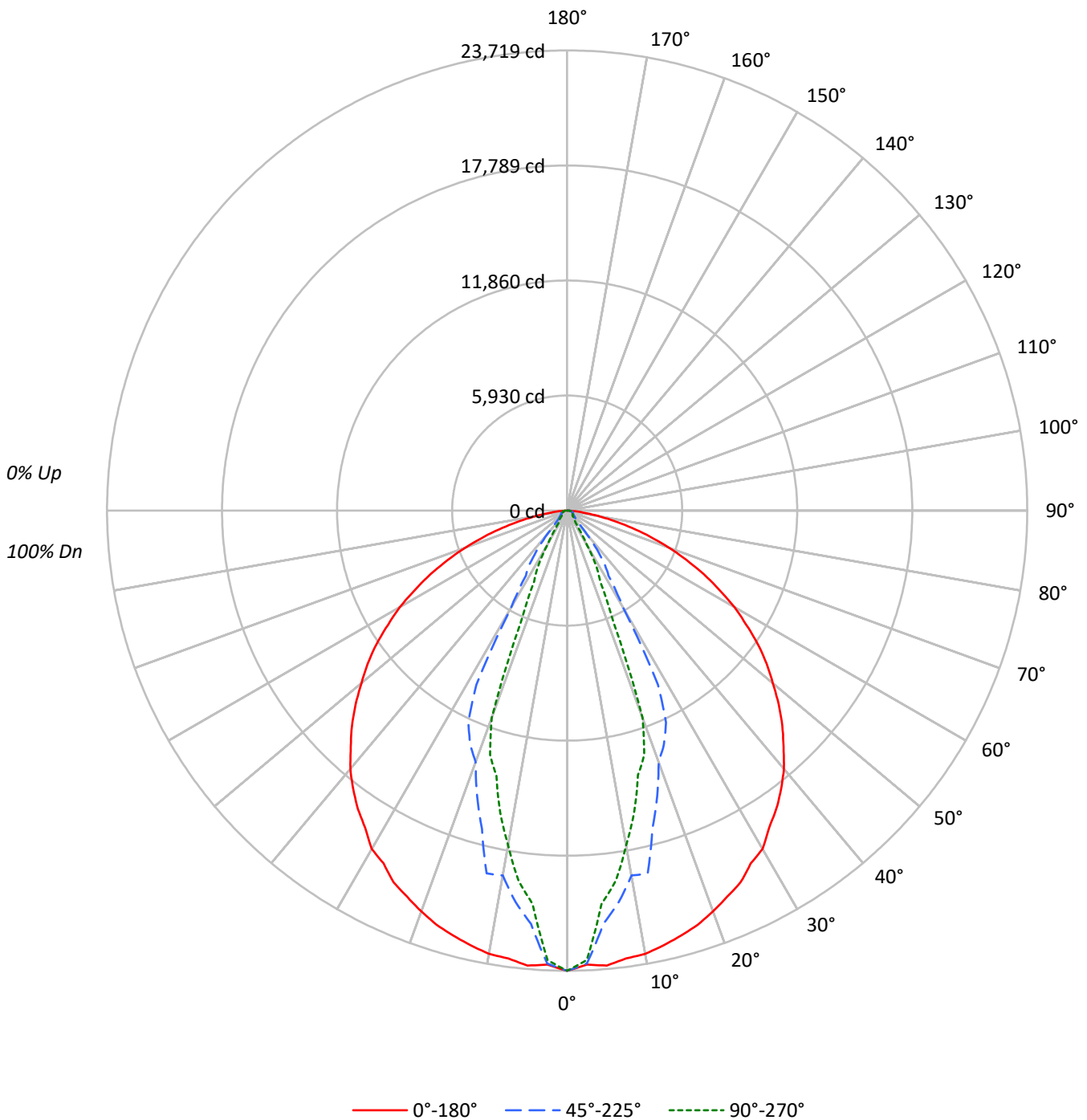
Lumens per Lamp: N/A
Luminaire Lumens: 23549.0 lumens
Efficiency: N/A
Efficacy: 115.4 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 0.6 / 0.75
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 8' x H: 0.1')
CIE Type: Direct

Input Watts (W): 204
Input Voltage (V):
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20					20					
RC	80					70					50					30					10					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0		
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100					100			
1	111	108	104	102	109	106	103	100	101	99	97	98	96	94	94	93	91	89					89			
2	104	98	92	88	102	96	91	87	92	88	85	89	86	83	86	84	81	79					79			
3	97	89	83	77	95	87	82	77	85	80	76	82	78	74	80	76	73	71					71			
4	91	81	74	69	89	80	74	69	78	72	68	76	71	67	74	70	66	64					64			
5	85	75	68	62	83	74	67	62	72	66	62	70	65	61	69	64	60	59					59			
6	80	69	62	57	79	69	62	57	67	61	56	65	60	56	64	59	55	54					54			
7	76	64	57	52	74	64	57	52	62	56	52	61	56	51	60	55	51	49					49			
8	71	60	53	48	70	60	53	48	58	52	48	57	52	48	56	51	47	46					46			
9	68	56	49	45	66	56	49	45	55	49	45	54	48	44	53	48	44	43					43			
10	64	53	46	42	63	52	46	42	52	46	42	51	45	41	50	45	41	40					40			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	34815	34815	34815
5°	34646	31285	29716
10°	34498	28045	25642
15°	34347	25224	20838
20°	34180	20881	17071
25°	34057	18773	6210
30°	33894	9356	3237
35°	33384	5664	1233
40°	32970	2834	1074
45°	32163	1229	795
50°	31142	1041	724
55°	30155	870	759
60°	28630	906	741
65°	26308	983	757
70°	23120	1028	785
75°	18686	1138	864
80°	12856	1351	956
85°	7235	1621	1198



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2026.1	8.6
10°-20°	4911.8	20.9
20°-30°	5350.7	22.7
30°-40°	4116.2	17.5
40°-50°	3041.3	12.9
50°-60°	1913.6	8.1
60°-70°	1253.0	5.3
70°-80°	701.5	3.0
80°-90°	234.9	1.0
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	12288.5	52.2
0°-40°	16404.7	69.7
0°-60°	21359.6	90.7
0°-90°	23549.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	23549.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	23719	23719	23719	23719	23719	
5°	23540	23357	21393	20130	20360	###
15°	22679	19717	16982	14741	14114	6404
25°	21151	15805	12056	5370	4029	9724
35°	18794	11647	3351	1068	740	11753
45°	15688	6204	643	542	425	12082
55°	11994	1590	382	401	343	10685
65°	7778	394	335	300	269	7671
75°	3449	296	265	238	214	3700
85°	491	187	191	183	160	626
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	23719.4	23719.4	23719.4	23719.4	23719.4
2.5°	23427.1	23434.9	23376.4	23259.5	23185.5
5°	23540.1	23357.0	21393.0	20130.5	20360.4
7.5°	23282.9	22336.0	20360.4	19417.4	19234.2
10°	23197.2	20769.5	19101.7	18782.2	17535.3
12.5°	22951.7	19818.7	19160.2	17145.6	15949.3
15°	22678.9	19717.4	16981.9	14741.3	14113.9
17.5°	22382.8	18829.0	15431.0	13509.9	13209.9
20°	21981.4	18260.0	13786.6	12418.9	11362.8
22.5°	21548.9	17987.3	13042.3	8093.5	6273.7
25°	21151.4	15805.1	12056.5	5369.7	4029.2
27.5°	20496.8	15629.8	10127.6	3931.8	3323.9
30°	20142.2	14008.7	5794.4	2957.6	2030.2
32.5°	19374.5	12738.4	3966.9	1796.4	1211.9
35°	18793.9	11647.3	3351.2	1067.7	740.4
37.5°	18112.0	10926.4	2505.6	732.6	643.0
40°	17387.2	10076.9	1586.0	654.6	611.8
42.5°	16506.5	9075.5	939.1	615.7	526.1
45°	15688.2	6203.6	643.0	541.6	424.7
47.5°	14784.2	4231.8	549.4	459.8	366.3
50°	13841.2	2766.7	502.7	409.2	358.5
52.5°	12956.6	2267.9	436.4	409.2	358.5
55°	11994.1	1589.9	381.9	401.4	342.9
57.5°	10938.1	989.8	358.5	389.7	331.2
60°	9963.9	584.5	354.6	378.0	300.0
62.5°	8826.1	444.2	346.8	335.1	284.5
65°	7777.9	393.6	335.1	300.0	268.9
67.5°	6651.7	354.6	311.7	288.4	261.1
70°	5572.3	319.5	296.2	268.9	237.7
72.5°	4489.0	307.8	280.6	253.3	226.0
75°	3448.6	296.2	265.0	237.7	214.3
77.5°	2509.5	276.7	249.4	229.9	202.6
80°	1628.8	253.3	237.7	214.3	183.1
82.5°	907.9	229.9	218.2	198.7	175.4
85°	491.0	187.0	190.9	183.1	159.8
87.5°	89.6	132.5	163.7	159.8	140.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)